

fusarium.ST25
SEQUENCE LISTING

<110> Beck, Jim
Barnett, Jason

<120> Detection of Fusarium Species infecting Corn Using the
Polymerase Chain Reaction

<130> 60055

<160> 24

<170> PatentIn version 3.0

<210> 1

<211> 682

<212> DNA

<213> Fusarium verticillioides (syn. F. moniliforme)

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caccatagga ctggccgccc catatgaaaa gattatatta gaattgaatg aagctttgtt 180
tatatatattga taatgacagt atatatatcg tgtcttgact aattgcgtgc cagcagtcgc 240
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gaggaggaga gatgaaattt cgtgatacca aagggactct gtaaaggcga aggcagccct 420
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agtttagttta gcaaactaat ggattcagac tagtccacca tatatttggt ctataaatga 600
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gtttctgaca ccagtagtga ag 682

<210> 2

<211> 689

<212> DNA

<213> Fusarium proliferatum

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agctttgttt atatattgat aatgacagta tatatatcgt gtcttgacta attgcgtgcc 240
agcagtcgcg gtaatacgta agagactagt gttattcatc ttaattaggt ttaaagggtta 300
cccagacggg caatatagct tataaaatgt tagtacttga ctagagtttt atgtaagagg 360

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gcagtacttg aggaggagag atgaaatttc gtgataccaa agggactctg taaaggcgaa	420
ggcagccctc tatgtaaaaa ctgacgttga aggacgaagg cacagagaac aaacaggatt	480
agatacccaa gtagtctttg cagtaaatga tgaatgccat aggttagatg ggtgggctcg	540
tctagttgag ttagtttagc aaactaatga tctagacgag cccaccgtat atttggctca	600
taaatgaaag tgtaagcatt tcacctcaag agtaatgtgg caacgcagga actgaaatca	660
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<210> 3
 <211> 726
 <212> DNA
 <213> gibberella zeae (syn. Fusarium graminearum)

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<210> 4
 <211> 690
 <212> DNA
 <213> Fusarium subglutinans

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gttttataac accataggac tggccgcccc atatgaaaag atttatattag aattgaatga	180
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agcagtcgcg gtaatacgta agagactagt gttattcatc ttaattaggt ttaaagggtta	300
cccagacggt caatatagct tataaaatgt tagtacttga ctagagtttt atgtaagagg	360

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gcagtacttg aggaggagag atgaaatttc gtgataccaa agggactcgg taaaggcgaa	420
ggcagccctc taggtaaaaa ctgacgttga aggacgaagg cacagagaac aaacaggatt	480
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<210> 5
 <211> 522
 <212> DNA
 <213> Fusarium subglutinans

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<210> 6
 <211> 521
 <212> DNA
 <213> Gibberella zeae

<400> 6	
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aggaacccta aactctgttt ttagtggaac ttctgagtat aaaaaacaaa taaatcaaaa	180
ctttcaacaa cggatctctt ggttctggca tcgatgaaga acgcagcaaa atgcgataag	240
taatgtgaat tgcagaattc agtgaatcat cgaatctttg aacgcacatt gcgcccggca	300
gtattctggc gggcatgcct gttcgagcgt catttcaacc ctcaagccca gcttggtggt	360
gggagctgca gtcctgctgc actcccaaa tacattggcg gtcacgtcga gcttccatag	420
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<210> 7
 <211> 534
 <212> DNA
 <213> *Fusarium proliferatum*

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 cagcttccat tgcgtagtag taaaaccctc gcaactggta cgcggcgcgg ccaagccggt 480
 aaaccccaaa cttctgaatg ttgacctcgg atcaggtagg aataccgct gaac 534

<210> 8
 <211> 522
 <212> DNA
 <213> *Fusarium verticillioides* (syn. *F. moniliforme*)

<400> 8
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 gggactcgcg agtcaaactc cggtcccaaa attgattggc ggtcacgtcg agcttccata 420
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<210> 9
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 <212> DNA
 <213> Artificial sequence

<220>
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 <223> Primer ITS1

<400> 9
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<210> 10
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
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 <222> (1)..(20)
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<400> 10
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<210> 11
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<220>
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<400> 11
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<210> 12
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <221> misc_feature
 <222> (1)..(20)
 <223> Primer ITS4

<400> 12
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<210> 13
 <211> 21
 <212> DNA
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<220>
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 <223> Primer FCORN1

<400> 13
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<210> 14
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<220>
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 <400> 14
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 <210> 15
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 <210> 16
 <211> 21
 <212> DNA
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 <223> Primer FSUB2

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 <210> 17
 <211> 21
 <212> DNA
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 <221> misc_feature
 <222> (1)..(21)
 <223> Primer FSUB3

 <400> 17
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 <210> 18
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
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 <222> (1)..(20)
 <223> Primer FVERT1

 <400> 18
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<210> 19
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
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 <222> (1)..(20)
 <223> Primer FVERT2

<400> 19
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<210> 20
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<400> 20
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<210> 21
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 <212> DNA
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 <223> Primer FPRO2

<400> 21
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<210> 22
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 <212> DNA
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 <223> Primer FPRO3

<400> 22
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<210> 23
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<220>
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25

<210> 24
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 <212> DNA
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<220>
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 <222> (1)..(22)
 <223> Primer MS2

<400> 24
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22